PATENTS
DYAX/002 CIP2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Robert C. Ladner et al.

Application No.: 10/045,674 Confirmation No.: 2458

Filed : October 25, 2001

For : NOVEL METHODS OF CONSTRUCTING LIBRARIES COMPRISING DISPLAYED AND/OR EXPRESSED MEMBERS OF A DIVERSE FAMILY OF PEPTIDES, POLYPEPTIDES OR PROTEINS AND THE NOVEL LIBRARIES

Group Art Unit : 1627

Hon. Commissioner
For Patents
Washington, D.C. 20231

New York, NY 10020
April 1, 2002

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.56 AND 1.97(b)(3)

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97, applicants hereby make the following publications of record in the above-identified patent application:

FOREIGN PATENT DOCUMENTS

| | | |
|---|---|---|
| WO 97/20923 | PCT | 06/12/97 |
| WO 97/49809 | PCT | 12/31/97 |

## OTHER DOCUMENTS


Alves J. et al., "Accuracy of the EcoRV restriction endonuclease: binding and cleavage studies with oligodeoxynucleotide substrates containing degenerate recognition sequences," *Biochemistry*, 34(35):11191-11197 (1995).

Blakesley R. et al., "Duplex Regions in "Single-Stranded" ØX174 DNA Are Cleaved by a Restriction Endonuclease from *Haemophilus Aegyptius*," The Journal of Bilogical Chemistry, 252:7300-7306 (1977).

Grimes E. et al., "Achilles' heel cleavage: creation of rare restriction sites in λ phage genomes and evaluation of additional operators, repressors and restriction/modification systems," *Gene*, 90(1):1-7 (1990).

Hasan N. and Szybalski W., "Control of cloned gene expression by promoter inversion in vivo: construction of improved vectors with a multiple cloning site and the $P_{tac}$ promoter," *Gene*, 56(1):145-151 (1987).

Kaczorowski T. and Szybalski W., "Genomic DNA sequencing by SPEL-6 primer walking using hexamer ligation," *Gene*, 223(1-2):83-91 (1998).

Kim S.C. et al., "Structural requirements for FokI-DNA interaction and oligodeoxyribonucleotide-instructed cleavage," *J. Mol. Biol.*, 258(4):638-649 (1996).

Kim S.C. et al., "Cleaving DNA at any predetermined site with adapter-primers and class-IIS restriction enzymes," *Science*, 240(4851):504-506 (1988).

Koob M. et al., "RecA-AC: single-site cleavage of plasmids and chromosomes at any predetermined restriction site," *Nucleic Acids Res.*, 20(21):5831-5836 (1992).

Koob M. and Szybalski W., "Cleaving yeast and Escherichia coli genomes at a single site," *Science*, 250(4978):271-273 (1990).

Koob M. et al., "Conferring operator specificity on restriction endonucleases," *Science*, 241(4869):1084-1086 (1988).

OTHER DOCUMENTS CONT'D

Koob M. et al., "Conferring new specificity upon restriction endonucleases by combining repressor-operator interaction and methylation," *Gene*, 74(1):165-167 (1988).

Kur J. et al., "A novel method for converting common restriction enzymes into rare cutters: integration host factor-mediated Achilles' cleavage (IHF-AC)," *Gene*, 110(1):1-7 (1992).

Nishigaki K. et al., "Type II Restriction Endonucleases Cleave Single-Stranded DNAs In General," Nucleic Acids Research, 13:5747-5760 (1985).

Podhajska A.J. and Szybalski W., "Conversion of the Fok-I endonuclease to a universal restriction enzyme: cleavage of phage M13mp7 DNA at predetermined sites," *Gene*, 40(1):175-182 (1985).

Podhajska A.J. et al., "Conferring new specificities on restriction enzymes: cleavage at any predetermined site by combining adapter oligodeoxynucleotide and class-IIS enzyme, *Methods Enzymol.*, 216(G):303-309 (1992).

Pósfai G. and Szybalski W., "A simple method for locating methylated bases in DNA using class-IIS restriction enzymes," *Gene*, 74(1):179-181 (1988).

Qi G. et al., "Restriction of Single-Stranded M13 DNA Using Synthetic Oligonucleotides: The Structural Requirement of Restriction Enzymes," Cell Biol., 65:50-55 (1986).

Szybalski W., "Reasons and risks to study restriction/modification enzymes form extreme thermophiles: chilly coldrooms, 13th sample, and 13-codon overlap," *Gene*, 112(1):1-2 (1992).

Szybalski W., "Universal restriction endonucleases: designing novel cleavage specificities by combining adapter oligodeoxynucleotide and enzyme moieties," *Gene*, 40(2-3):169-173 (1985).

Szybalski W. and Skalka A., "Nobel prizes and restriction enzymes," *Gene*, 4(3):181-182 (1978).

Szybalski W., et al., "Class-IIS restriction enzymes-a review," *Gene*, 100:13-26 (1991).

Thielking V. et al., "Accuracy of the EcoRI restriction endonuclease: binding and cleavage studies with oligodeoxynucleotide substrates containing degenerate recognition sequences," *Biochemistry,* 29(19):4682-4691 (1990).

Zhu D., "Oligodeoxynucleotide-directed cleavage and repair of a single-stranded vector: a method of site-specific mutagenesis," *Analytical Biochemistry,* 177(1):120-124 (1989).



Copies of the aforementioned references, which are listed on the accompanying Form PTO-1449 (submitted in duplicate) are enclosed herewith.

Consideration of the foregoing in relation to this patent application is respectfully requested.

Respectfully submitted,

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I Hereby Certify that this Correspondence is being Deposited with the U.S. Postal Service as First Class Mail in an Envelope Addressed to: COMMISSIONER FOR PATENTS P.O. Box 2327 Arlington, VA 22202 on

April 1, 2002

Lillian Garcia

Signature of Person Signing

| FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. DYAX/002 CIP2 | APPLICATION NO. 10/045,677 |
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| INFORMATION DISCLOSURE STATEMENT BY APPLICANTS | APPLICANTS Robert C. Ladner et al. | CONFIRMATION NO. 2458 |
| | FILING DATE October 25, 2001 | GROUP 1627 |



U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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|---|---|---|---|---|---|---|---|
| | WO 97/20923 | 06/12/97 | PCT | | | | |
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| | Alves J. et al., "Accuracy of the EcoRV restriction endonuclease: binding and cleavage studies with oligodeoxynucleotide substrates containing degenerate recognition sequences," *Biochemistry*, 34(35):11191-11197 (1995). |

EXAMINER DATE CONSIDERED

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